JOURNAL OF POWDER METALLURGY

TABLE OF CONTENTS FOR VOLUME 35, NUMBERS 1-8, 1999

35/1 JANUARY/FEBRUARY 1999

4 EDITOR'S NOTE
5 NEWSMAKER: W. HUPPMANN
9 P/M TECHNOLOGY NEWS
19 P/M METALLOGRAPHY COMPETITION: METHOD DEVELOPMENT & STUDENT CATEGORIES
27 OUTSTANDING TECHNICAL PAPER: PM²TEC'98: GRAIN GROWTH INHIBITION IN LIQUID PHASE SINTERED NANOPHASE WC/CO ALLOYS, *R.K. Sadangi, L.E. McCandlish, B.H. Kear and P. Seegopaul*
35 COMPANY PROFILE: AMETEK SPECIALTY METAL PRODUCTS DIVISION
39 CONSULTANTS' CORNER: MYRON JAFFE
41 MICROSTRUCTURE AND WEAR RESPONSE OF SPRAY CAST AL-SI/SiC$_P$ COMPOSITES , *C-S Park, M-H Kim and A. Lawley*
51 MEASUREMENT AND ANALYSIS OF MELT FLOWRATE IN GAS ATOMIZATION, *T. Le, R. Stefaniuk, H. Henein, and J-Y Huôt*
17 APMI NEWS
60 BOOK REVIEW
61 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
62 CONFERENCE REPORT
67 MEETINGS AND CONFERENCES
69 U.S. PATENTS
72 ADVERTISER'S INDEX
71 P/M BOOKSHELF

35/2 MARCH 1999

4 EDITOR'S NOTE
5 NEWSMAKER: S. SARITAS
7 P/M TECHNOLOGY NEWS
19 COMPANY PROFILE: FRAUNHOFER CENTER DELAWARE
23 CONSULTANTS' CORNER: W. HUNT
27 PROCESSING OF COMPOSITE AL/SIC POWDERS FOR PLASMA SPRAYING, *K. Ghosh, T. Troczynski, and A.C. Chaklader*
37 MICROSTRUCTURE AND SLIDING WEAR BEHAVIOR OF THERMAL SPRAY CARBIDE COATINGS, *G.M. La Vecchia, F. Mor, G. Straffelini and D. Doni*
47 EVALUATION OF POROSITY IN SPRAY DEPOSITED A2TOOL STEEL, *J-P. Delplanque, W.D. Cai, D. White and E.J. Lavernia*
57 SOLUTION-REPRECIPITATION MECHANISM IN FE-CU-C DURING LIQUID PHASE SINTERING, *H. Kuroki, G. Han and K. Shinozaki*
15 APMI NEWS
63 BOOK REVIEWS
66 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
67 MEETINGS AND CONFERENCES
69 U.S. PATENTS
71 P/M BOOKSHELF
72 ADVERTISER'S INDEX

35/3 APRIL 1999

4 EDITOR'S NOTE
6 NEWSMAKER: O. GRINDER
9 P/M TECHNOLOGY NEWS
19 CONSULTANTS' CORNER: J.T. STRAUSS
23 ANNUAL TECHNOLOGY REVIEW: P/M TECHNOLOGY TRENDS - 1999
31 COST-EFFECTIVE HIPING, *F.X. Zimmerman, C. Bergman and J. Westerlund*
37 HIP DEVELOPMENTS IN RUSSIA, *R.A. Khaykin*
41 HOT ISOSTATIC PRESSING SERVICES AND FACILITIES, *J.C. Hebeisen and B. Birch*
51 HOT ISOSTATIC PRESSING: SAVING TIME AND MONEY, *C. Barré*
53 FULLY DENSE P/M COMPONENTS PRODUCED BY HOT ISOSTATIC PRESSING, *F. Rizzo and J. Conway*
63 AXISYMMETRIC PART COMPACTION: DATA BASE FOR NUMERICAL SIMULATION, *P. Doremus, E. Pavier, J. Kergadallan and G. Puente*
17 APMI NEWS
70 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
71 MEETINGS AND CONFERENCES
72 ADVERTISER'S INDEX

35/4 MAY/JUNE 1999

4 EDITOR'S NOTE
7 NEWSMAKER: J.C. KOSCO
11 P/M TECHNOLOGY NEWS
25 EXHIBITOR SHOWCASE: PM²TEC'99
37 COMPANY PROFILE: BLACK & DECKER, INC.
41 CONSULTANTS' CORNER: D. APELIAN
43 APMI INTERNATIONAL - 40 YEARS SERVING P/M: P.K. JOHNSON
47 METAL INJECTION MOLDING OF NANOSTRUCTURED W-CU COMPOSITE POWDER, *J-C. Kim, S-S. Ryu, H. Lee, and I-H. Moon*
57 COMPUTER MODEL FOR THE SINTERING DENSIFICATION OF INJECTION MOLDED M2 TOOL STEEL, *R.M. German*
21 APMI NEWS
69 BOOK REVIEWS
73 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
74 CONFERENCE REPORT
76 MEETINGS AND CONFERENCES
78 U.S. PATENTS
79 P/M BOOKSHELF
80 ADVERTISER'S INDEX

JOURNAL OF POWDER METALLURGY

TABLE OF CONTENTS FOR VOLUME 35, NUMBERS 1-8, 1999

35/1 JANUARY/FEBRUARY 1999

4 EDITOR'S NOTE
5 NEWSMAKER: W. HUPPMANN
9 P/M TECHNOLOGY NEWS
19 P/M METALLOGRAPHY COMPETITION: METHOD DEVELOPMENT & STUDENT CATEGORIES
27 OUTSTANDING TECHNICAL PAPER: PM²TEC'98: GRAIN GROWTH INHIBITION IN LIQUID PHASE SINTERED NANOPHASE WC/CO ALLOYS, *R.K. Sadangi, L.E. McCandlish, B.H. Kear and P. Seegopaul*
35 COMPANY PROFILE: AMETEK SPECIALTY METAL PRODUCTS DIVISION
39 CONSULTANTS' CORNER: MYRON JAFFE
41 MICROSTRUCTURE AND WEAR RESPONSE OF SPRAY CAST AL-SI/SiC$_P$ COMPOSITES , *C-S Park, M-H Kim and A. Lawley*
51 MEASUREMENT AND ANALYSIS OF MELT FLOWRATE IN GAS ATOMIZATION, *T. Le, R. Stefaniuk, H. Henein, and J-Y Huôt*
17 APMI NEWS
60 BOOK REVIEW
61 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
62 CONFERENCE REPORT
67 MEETINGS AND CONFERENCES
69 U.S. PATENTS
72 ADVERTISER'S INDEX
71 P/M BOOKSHELF

35/2 MARCH 1999

4 EDITOR'S NOTE
5 NEWSMAKER: S. SARITAS
7 P/M TECHNOLOGY NEWS
19 COMPANY PROFILE: FRAUNHOFER CENTER DELAWARE
23 CONSULTANTS' CORNER: W. HUNT
27 PROCESSING OF COMPOSITE AL/SIC POWDERS FOR PLASMA SPRAYING, *K. Ghosh, T. Troczynski, and A.C. Chaklader*
37 MICROSTRUCTURE AND SLIDING WEAR BEHAVIOR OF THERMAL SPRAY CARBIDE COATINGS, *G.M. La Vecchia, F. Mor, G. Straffelini and D. Doni*
47 EVALUATION OF POROSITY IN SPRAY DEPOSITED A2TOOL STEEL, *J-P. Delplanque, W.D. Cai, D. White and E.J. Lavernia*
57 SOLUTION-REPRECIPITATION MECHANISM IN FE-CU-C DURING LIQUID PHASE SINTERING, *H. Kuroki, G. Han and K. Shinozaki*
15 APMI NEWS
63 BOOK REVIEWS
66 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
67 MEETINGS AND CONFERENCES
69 U.S. PATENTS
71 P/M BOOKSHELF
72 ADVERTISER'S INDEX

35/3 APRIL 1999

4 EDITOR'S NOTE
6 NEWSMAKER: O. GRINDER
9 P/M TECHNOLOGY NEWS
19 CONSULTANTS' CORNER: J.T. STRAUSS
23 ANNUAL TECHNOLOGY REVIEW: P/M TECHNOLOGY TRENDS - 1999
31 COST-EFFECTIVE HIPING, *F.X. Zimmerman, C. Bergman and J. Westerlund*
37 HIP DEVELOPMENTS IN RUSSIA, *R.A. Khaykin*
41 HOT ISOSTATIC PRESSING SERVICES AND FACILITIES, *J.C. Hebeisen and B. Birch*
51 HOT ISOSTATIC PRESSING: SAVING TIME AND MONEY, *C. Barré*
53 FULLY DENSE P/M COMPONENTS PRODUCED BY HOT ISOSTATIC PRESSING, *F. Rizzo and J. Conway*
63 AXISYMMETRIC PART COMPACTION: DATA BASE FOR NUMERICAL SIMULATION, *P. Doremus, E. Pavier, J. Kergadallan and G. Puente*
17 APMI NEWS
70 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
71 MEETINGS AND CONFERENCES
72 ADVERTISER'S INDEX

35/4 MAY/JUNE 1999

4 EDITOR'S NOTE
7 NEWSMAKER: J.C. KOSCO
11 P/M TECHNOLOGY NEWS
25 EXHIBITOR SHOWCASE: PM²TEC'99
37 COMPANY PROFILE: BLACK & DECKER, INC.
41 CONSULTANTS' CORNER: D. APELIAN
43 APMI INTERNATIONAL - 40 YEARS SERVING P/M: P.K. JOHNSON
47 METAL INJECTION MOLDING OF NANOSTRUCTURED W-CU COMPOSITE POWDER, *J-C. Kim, S-S. Ryu, H. Lee, and I-H. Moon*
57 COMPUTER MODEL FOR THE SINTERING DENSIFICATION OF INJECTION MOLDED M2 TOOL STEEL, *R.M. German*
21 APMI NEWS
69 BOOK REVIEWS
73 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
74 CONFERENCE REPORT
76 MEETINGS AND CONFERENCES
78 U.S. PATENTS
79 P/M BOOKSHELF
80 ADVERTISER'S INDEX

35/5 JULY/AUGUST 1999

4 EDITOR'S NOTE
7 NEWSMAKER: *William R. Gasbarre*
9 P/M TECHNOLOGY NEWS
21 COMPANY PROFILE: ALLIED SINTERINGS, INC.
23 CONSULTANTS' CORNER: PER LINDSKOG
25 STATE-OF-THE P/M INDUSTRY IN NORTH AMERICA, *D.G. White*
31 INTERNATIONAL DESIGN COMPETITION WINNERS, *P.K. Johnson*
39 INTERNATIONAL STANDARDS AND THE P/M INDUSTRY IN NORTH AMERICA: *W.A. Buerkel*
45 EVALUATION OF A POLYETHYLENE LUBRICANT FOR ALUMINUM P/M APPLICATIONS, *L-P. Lefebvre and Y. Thomas*
54 A NEW TECHNIQUE FOR THE EVALUATION OF DIE COMPACTION LUBRICANTS, *R.G. Iacocca, D.C. Smith and R.M. German*
19 APMI NEWS
67 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
68 MEETINGS AND CONFERENCES
70 U.S. PATENTS
72 ADVERTISER'S INDEX

35/6 SEPTEMBER 1999

4 EDITOR'S NOTE
7 NEWSMAKER: MYRON I. JAFFE
9 P/M TECHNOLOGY NEWS
19 COMPANY PROFILE: STARMET CORPORATION
23 CONSULTANTS' CORNER: LOUIS G. ROY
27 THERMAL CRACKING IN LARGE DIAMETER SPRAY FORMED BILLETS, *J.E. Fischer, V. Uhlenwinkel, R. Schroder, N. Jordan, S. Hansmann and H.R. Muller*
35 TESTING P/M MATERIALS FOR HIGH LOADING GEAR APPLICATIONS, *G. Hoffmann, K. Lipp, K. Michaelis, C.M. Sonsino and J.A. Rice*
45 SUPERSOLIDUS LIQUID PHASE SINTERING OF INJECTION MOLDED M2 TOOL STEEL, *N.S. Myers and R.M. German*
17 APMI NEWS
53 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
55 INSTRUCTIONS FOR AUTHORS
57 MEETINGS AND CONFERENCES
59 U.S. PATENTS
64 ADVERTISER'S INDEX
63 P/M BOOKSHELF

35/7 OCTOBER 1999

4 EDITOR'S NOTE
5 P/M METALLOGRAPHY COMPETITION: ARTISTIC CATEGORY WINNERS
9 NEWSMAKER: S. ABKOWITZ
13 P/M TECHNOLOGY NEWS
21 COMPANY PROFILE: ETA SA FABRIQUES D'EBAUCHES
25 CONSULTANTS' CORNER: S. KAUFMAN
29 AXEL MADSEN/CMPT SCHOLAR REPORTS
35 OVERVIEW: STATUS AND CURRENT DEVELOPMENTS IN NANOMATERIALS, *B.H. Kear and G. Skandan*
39 METALLIC NANOPOWDERS PRODUCED BY THE ELECTRO-EXPLODING WIRE PROCESS, *F. Tepper*
45 PRODUCTION OF OXIDE NANOPOWDERS BY CHEMICAL VAPOR CONDENSATION, *A. Singhal and G. Skandan*
53 METAL NANOPOWDERS FOR ELECTRICALLY CONDUCTIVE POLYMERS, *B.H. Gunther*
59 SINTERING OF NANOCRYSTALLINE POWDERS, *J. R. Groza*
19 APMI NEWS
67 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
68 MEETINGS AND CONFERENCES
70 U.S. PATENTS
72 ADVERTISER'S INDEX
52 P/M BOOKSHELF

35/8 NOVEMBER/DECEMBER 1999

4 EDITOR'S NOTE
6 NEWSMAKER: JOHN J. DUNKLEY
9 P/M TECHNOLOGY NEWS
18 P/M METALLOGRAPHY COMPETITION: GRAND PRIZE, R&D, METHOD DEVELOPMENT AND STUDENT CATEGORY WINNERS
31 COMPANY PROFILE: WAKEFIELD CORPORATION
35 CONSULTANTS' CORNER: BRIAN T. DODGE
39 POWDER METALLURGY PROCESSING OF MO-CU FOR THERMAL MANAGEMENT APPLICATIONS, *J.L. Johnson and R.M. German*
49 SUPERSOLIDUS LIQUID-PHASE SINTERING BEHAVIOR OF DEGASSED 6061 AL POWDER, *A. Ziani and S. Pelletier*
59 SINTERED 6061 AL PREALLOYED POWDER: PROCESSING AND MECHANICAL BEHAVIOR, *A. Ziani and S. Pelletier*
15 APMI NEWS
67 BOOK REVIEW
69 CONFERENCE REPORTS
72 EMPLOYMENT OPPORTUNITIES/CLASSIFIED
73 MEETINGS AND CONFERENCES
75 U.S. PATENTS
77 P/M BOOKSHELF
78 TABLE OF CONTENTS: VOLUME 35, NUMBER 1-8, 1999
80 ADVERTISER'S INDEX